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June 9, 2003

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Document Transmitted: Proposed Declaration

Message: per our telephone conversation, enclosed please find the Proposed Declaration for your review. Please call me once you have reviewed the same.

Thank you for your cooperation and assistance in this matter.

Curtis B. Hamre

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S/N 09/575348		<u>PATENT</u>	
IN THE UNITED STA	TES PATENT AND TRADEMAR	K OFFICE	
Applicant: ANDO ET AL.	Examiner:	S. IP	
Serial No.: 09/575348	Group Art Unit:	1742	
Filed: May 19, 2000	Docket No.:	12052.33US01	
Title: BILLET FOR COLD FORGING, METHOD OF MANUFACTURING BILLET FOR COLD FORGING, METHOD OF CONTINUOUSLY COLI FORGING BILLET, METHOD OF COLD-FORGING			
CERTIFICATE UNDER 37 CFR 1.6(d): I hereby certify that this paper is being transmitted by face	simile to the U.S. Patent and Trademark Office on	June, 2003.	
	By:		
DECLARATIO	ON OF		
Mail Stop Non-Fee Amendment P.O. Box 1450 Alexandria, VA 22313-1450 Dear Sir:			
1. I am one of the invento	rs of the invention described and c	laimed in the above-	
identified patent application. I have a degree in			
granted by	I am employ	ed by Honda Giken	
Kogyo Kabushiki Kaisha. I have bee	n engaged in research on forging te	echnology, and am	
currently employed in the Engineering Department of the Intellectual Property Division of			
Honda.			
2. I am familiar with the p time of this declaration. I believe the this technology based on my knowledged declaration.	•	ng claims is inventive in	
3 With respect to a billet common components within the rangest billet comprises a fine spheroidized str	of steel for continuous cold forging s given in the table below such that		

that the billet has a limiting upsetting ratio of 90% or more without the occurrence of cracks.

- 4. I and my co-inventors have discovered that to achieve the indicated limiting upsetting ratio that the components must be as indicated, and particularly, that C must be controlled within the tight range indicated and that Si, Mn, P, S and Cu must be near the bottom or below the bottom of the range of similar components with respect to the composition of steel S548C for hot forging.
- 5. I and my co-inventors discovered and disclosed in this patent application to different methods of making billets using the claimed ranges of components in order to achieve the property that the billet has a limiting upsetting ratio of 90% or more without the occurrence of cracks. The methods are illustrated in the attached copies of Figs. 1 and 10 from the application. Fig. 1 is explained at page 16, line 31 to page 18, line 6 of the clean copy of the substitute specification. Fig. 10 is explained at page 21, lines 11-24 of the substitute specification.
- 6. Until we discovered the claimed ranges of components and the methods of making billets by cold forging which achieve the property of a limiting upsetting ratio of 90% or

more without the occurrence of cracks, I believe that no one else had achieved making a billet with the claimed limiting upsetting ratio. In our industry, this is significant.

- 7. Claims 2 and 31 have the further limitation that the billet has an aspect ratio of 300% or less. This is another property which is achievable with the method of Fig. 1. I believe this is also very significant.
- Claims 30 and 31 have the further limitation that the surface of the billet comprises a fine spheroidized structure comprising ferrite and cementite. This is a result of using the method of Fig. 10.
- I hereby declare that all statements made herein of my own knowledge are true 9. and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and alike are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willfull false statements may jeopardize the validity of the application or any patent issued thereon.

DATED:	 
	RV·